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NEWS 22	DEC 17	USPATOLD added to additional database clusters
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NEWS 24	DEC 17	DGENE now includes more than 10 million sequences
NEWS 25	DEC 17	TOXCENTER enhanced with 2008 MeSH vocabulary in MEDLINE segment
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NEWS 27	DEC 17	CA/CAplus enhanced with new custom IPC display formats
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=> file casreact
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FILE CONTENT:1840 - 17 Dec 2007 VOL 147 ISS 26

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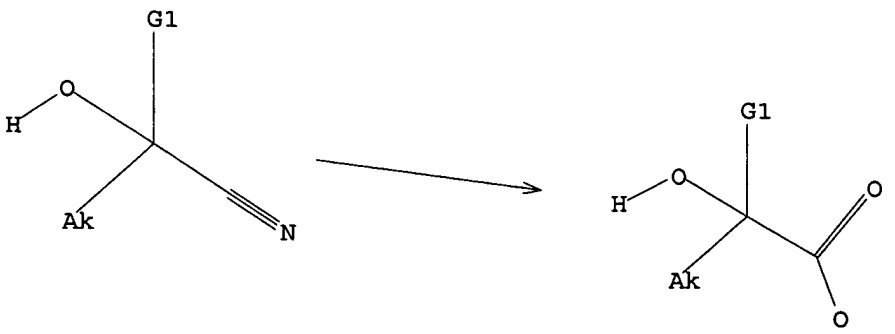
L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



G1 H,Me,Et,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu,Ph,CF2,CF3

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=> s l1
SAMPLE SEARCH INITIATED 14:53:17 FILE 'CASREACT'
SCREENING COMPLETE -      443 REACTIONS TO VERIFY FROM       60 DOCUMENTS

100.0% DONE     443 VERIFIED       5 HIT RXNS (     1 INCOMP)        5 DOCS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED VERIFICATIONS:      7598 TO    10122
PROJECTED ANSWERS:               5 TO      234

L2             5 SEA SSS SAM L1 (     5 REACTIONS)

=> s l1 full
FULL SEARCH INITIATED 14:53:23 FILE 'CASREACT'
SCREENING COMPLETE -    12399 REACTIONS TO VERIFY FROM     1213 DOCUMENTS

100.0% DONE   12399 VERIFIED     132 HIT RXNS (     5 INCOMP)       87 DOCS
SEARCH TIME: 00.00.09

L3            87 SEA SSS FUL L1 (   132 REACTIONS)

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FILE COVERS 1907 - 20 Dec 2007  VOL 147 ISS 26
FILE LAST UPDATED: 19 Dec 2007  (20071219/ED)

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=> s l3
L4             87 L3

=> s l3 not py > 2004
             87 L3
        3993509 PY > 2004
L5           66 L3 NOT PY > 2004
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=> s l5 and solvent
        724174 SOLVENT
L6            5 L5 AND SOLVENT

=> d l6 ibib abd tot 1-
'ABD' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'

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CBIB -------- AN, plus Compressed Bibliographic Data
CLASS ------- IPC, NCL, ECLA, FTERM
DALL -------- ALL, delimited (end of each field identified)
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FAM --------- AN, PI and PRAI in table, plus Patent Family data
FBIB -------- AN, BIB, plus Patent FAM
IND --------- Indexing data
IPC --------- International Patent Classifications
MAX --------- ALL, plus Patent FAM, RE
PATS -------- PI, SO
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SCAN -------- CC, SX, TI, ST, IT (random display, no answer numbers;
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IBIB -------- BIB, indented with text labels
IMAX -------- MAX, indented with text labels
ISTD -------- STD, indented with text labels

OBIB -------- AN, plus Bibliographic Data (original)
OIBIB ------- OBIB, indented with text labels

SBIB -------- BIB, no citations
SIBIB ------- IBIB, no citations

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              containing hit terms
HITRN ------- HIT RN and its text modification
HITSTR ------ HIT RN, its text modification, its CA index name, and
              its structure diagram
HITSEQ ------ HIT RN, its text modification, its CA index name, its
              structure diagram, plus NTE and SEQ fields
FHITSTR ----- First HIT RN, its text modification, its CA index name, and
              its structure diagram
FHITSEQ ----- First HIT RN, its text modification, its CA index name, its
              structure diagram, plus NTE and SEQ fields
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=> d l6 ibib abs hitstr 1-
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L6 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:242505 CAPLUS
DOCUMENT NUMBER: 140:423490
TITLE: Synthesis of the marine compound (2R,5Z,9Z)-2-methoxyhexacosa-5,9-dienoic acid via a lipase-catalyzed resolution and a novel O-alkylation protocol
AUTHOR(S): Kulkarni, Bheemashankar A.; Sharma, Anubha; Gamre, Sunita; Chattopadhyay, Subrata
CORPORATE SOURCE: Bio-Organic Division, Bhabha Atomic Research Centre, Mumbai, 400 085, India
SOURCE: Synthesis (2004), (4), 595-599
CODEN: SYNTBF; ISSN: 0039-7881
PUBLISHER: Georg Thieme Verlag
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 140:423490
AB The title compound has been synthesized by a facile route starting from 4-pentyn-1-ol. The enantioselectivity was attained by a strategy involving a lipase-catalyzed acetylation of a solid-phase immobilized long chain α-hydroxy acid. Another important feature of the synthesis was the formulation of an efficient HgO-catalyzed O-methylation of the α-hydroxy acids which proceeded without any racemization. The alkylation protocol was also highly efficient for selective mono-methylation/benzylation of sym. diols.
REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2003:688298 CAPLUS
DOCUMENT NUMBER: 140:320064
TITLE: Biocatalytic hydrolysis of cyanohydrins: an efficient approach to enantiopure α-hydroxy carboxylic acids
AUTHOR(S): Osprian, Ingrid; Fechter, Martin H.; Griengl, Herfried
CORPORATE SOURCE: Institute of Organic Chemistry, Graz University of Technology, Graz, A-8010, Austria
SOURCE: Journal of Molecular Catalysis B: Enzymatic (2003), 24-25, 89-98
CODEN: JMCEF8; ISSN: 1381-1177
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 140:320064
AB Rhodococcus erythropolis NCIMB 11540 was found to have a highly active nitrile hydratase/amidase enzyme system present which accepts the nitrile function of α-hydroxynitriles (cyanohydrins) as substrates. This biocatalytic hydrolysis using whole bacterial cells leads to α-hydroxy carboxylic acids which are much valued chiral building blocks in organic synthesis. Employing enantiopure cyanohydrins, which are easy available using (R)- or (S)-hydroxynitrile lyases, the products were obtained in high yield without racemization, decomposition or side reactions. Herein, the application of this biotransformation for preparative scale applications is described. To clarify the substrate acceptance of the nitrile hydrolyzing enzymes of R. erythropolis NCIMB 11540, several selected model compds. were subjected to biocatalytic hydrolysis.

Reaction conditions were optimized to enable preparative scale conversions. In this manner, (R)-2-chloromandelic acid and (R)-2-hydroxy-4-phenylbutyric acid, two important pharmaceutical intermediates, were prepared in a gram scale. The substrate concns. used were 9.3 and 13 g/l, resp. The process yielded both acids in high optical (ee>99 and 98%) and chemical (98%) yield after short reaction times (3 and 1.5 h).

REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2002:90001 CAPLUS
DOCUMENT NUMBER: 136:134502
TITLE: Process for producing 2-hydroxy-4-methylthiobutanoic acid
INVENTOR(S): Ikudome, Kenji; Shiozaki, Tetsuya; Otani, Takehiro; Sudo, Shogo
PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan
SOURCE: PCT Int. Appl., 15 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002008181	A1	20020131	WO 2001-JP5982	20010709
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
JP 2002037769	A	20020206	JP 2000-223436	20000725

PRIORITY APPLN. INFO.: JP 2000-223436 A 20000725
OTHER SOURCE(S): CASREACT 136:134502
AB This document discloses a process for producing 2-hydroxy-4-methylthiobutanoic acid which comprises hydrating 2-hydroxy-4-methylthiobutanenitrile in the presence of sulfuric acid, hydrolyzing the 2-hydroxy-4-methylthiobutanamide contained in the reaction mixture, subsequently separating the resultant reaction mixture into an oil layer containing 2-hydroxy-4-methylthiobutanoic acid and an aqueous layer, and circulating a part of the aqueous layer to the hydrolysis step and/or the oil/water separation step. By the process, 2-hydroxy-4-methylthiobutanoic acid can be efficiently obtained in a satisfactory manner without using an organic solvent.
REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1992:591348 CAPLUS
DOCUMENT NUMBER: 117:191348
TITLE: Preparation of α-hydroxyisobutyric acid by hydrolysis of acetone cyanohydrin
INVENTOR(S): Noguchi, Shizuo; Ogiwara, Shinei; Nakamura, Akira
PATENT ASSIGNEE(S): Kuraray Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 3 pp.
CODEN: JKXXAF

DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04193845	A	19920713	JP 1990-324957	19901126
JP 2909198	B2	19990623		

PRIORITY APPLN. INFO.: JP 1990-324957 19901126
OTHER SOURCE(S): CASREACT 117:191348
AB In preparation of Me2C(OH)CO2H (I) by hydrolysis of Me2C(OH)CN (II) with HCl, 1:(1.0-1.5):(3.6-5.4) mol. ratio of II, HCl, and H2O are heated at 65-95° and optionally II is extracted by organic solvents. II (17.0 g) was added to 23.0 g 36% aqueous HCl, stirred at 80-90° for 2 h, and extracted with iso-Pr ether to give 97% I.

L6 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1950:20099 CAPLUS
DOCUMENT NUMBER: 44:20099
ORIGINAL REFERENCE NO.: 44:3993h-i,3994a-i
TITLE: Addition and condensation reactions of 2-pyridone
AUTHOR(S): Adams, Roger; Jones, Viron V.
SOURCE: Journal of the American Chemical Society (1949), 71, 3826-33
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
OTHER SOURCE(S): CASREACT 44:20099
GI For diagram(s), see printed CA Issue.
AB CH2:C(NHAc)CO2H (0.5 g.) and 0.5 g. 2(1H)-pyridone (I), heated 1 hr. at 140°, give the Ac derivative (II), m. 199° (m.ps. corrected), of α-amino-2(1H)-pyridone-1-propionic acid, m. 236° (decomposition) (72% from II on refluxing 6 hrs. with 48% HBr). 2(1H)-Pyridone-1-propionic acid (III) (15 g.), 3.6 g. red P, and 30 ml. CCl4, treated dropwise at 0° with 60 g. Br and gradually heated to remove HBr, give 32% 3,5-dibromo-2(1H)-pyridone-1-propionic acid, m. 182°. Cl-CH2CH(OMe)2 (20 g.) and 10 g. H2O containing 10 drops concentrated HCl, refluxed until the 2 phases disappear, treated with 10 g. I, refluxed an addnl. hr., the volatile products distilled at 100°/20 mm., and 50 ml. Me2CO added, give 66% 2(1H)-pyridone-1-acetaldehyde-HCl, m. 139-40°; the free base (IV) is a sirup which yields an oxime, m. 78-9°, and a semicarbazone, m. 155-6°; IV could not be converted to an amino acid. BrCH2COCO2H and I, kept 10 hrs. at 55° and the residue in Me2CO treated with a small quantity of HBr, give a compound m. 143-5° (decomposition), which may be the 2-pyridonium salt of 2(1H)-pyridone-1-pyruvic acid-HBr; it yields II picrate in EtOH. I (5 g.) and 7 g. butadiene sulfone in 50 ml. absolute EtOH containing KOH, refluxed 2 hrs., give 73% of the adduct C9H11NO2S, m. 136-7°; I does not add mesityl oxide. The Na salt of I (with 2 mols. H2O) (20 g.) and 30 g. BrCH2CHBrCO2H in 50 ml. Me2CO, heated on the steam bath, the solvent evaporated, the residue extracted with MeNO2, and the extract diluted with ether, give 64% of a H2O-soluble compound (V), with 1 mol. H2O, m. 122-3°. V (6 g.) results also from 12 g. of the Na salt of I and 28 g. BrCH2CHBrCO2Et in EtOH (refluxing 15 min.), followed by hydrolysis, and in 70% yield from I and CH2:CBrCO2H (heating 1 hr. on a steam cone) and in 4.5-g. yield from 9.5 g. I and 18 g. CH2:CBrCO2Et. V (2 g.) and 20 ml. concentrated NH4OH, refluxed 1 hr., give 71% α-2(1H)-pyridone-β-aminopropionic acid (VI), m. 213-15° (decomposition); 0.35 g. VI in 2 ml. absolute EtOH, treated with HBr until solution results, gives 89% of the lactam-HBr of VI, m. 298-9° (decomposition); with NH4OH it yields VI. VI (0.8 g.) and 0.5 g. NaOH in 5 ml.

H_2O, refluxed 0.5 hr., give 52% α-[2(1H)-pyridone]-β-hydroxypropionic acid (VII), m. 173-5°; this results in 79% yield from V and NaOH in H_2O (refluxed 1 hr.); VII is unchanged on refluxing with 48% HBr 4 hrs. The Ac derivative of VII m. 224-5° (39%). O.CH_2.$CHCO_2H$ (1.3 g.) and 0.95 g. I in 2 ml. EtOH, heated 1 hr. on the steam cone, give 55% VII. V (2.6 g.) in 20 ml. MeOH, macerated 2 min. with Ag_2O (1.7 g. $AgNO_3$), gives 56% of the hydrate, m. 105-7°, of the betaine (VIII), $C_8H_7NO_3$, m. 159-65°; HBr regenerates V. V (2 g.) in 100 ml. hot 95% EtOH, hydrogenated over Pd-C at 50°/50 lb. and the resulting sirup in 50 ml. MeOH saturated with NH_3, give 0.5 g. α-(2-piperidone)-β-aminopropionic acid, with 1 mol. H_2O, m. 177-9°; further reduction over Pt oxide gives VI. V (4 g.) and 50 mg. Pt oxide in 100 ml. EtOH, hydrogenated at 50°/50 lb., give 83% of the HBr salt, m. 173-4°, of α-hydroxy-1-piperidinepropionic acid (IX), m. 219-20°; 48% HBr (refluxed 4 hrs.) gives the HBr salt; 5 g. IX and 1 ml. 48% HBr in 50 ml. MeOH, refluxed 12 hrs., give 86% of the Me ester-HBr, m. 141°; the free ester could not be obtained, Ag_2O in MeOH giving IX. Pyrolysis of IX.HBr at 175-85°/1 mm. gives 88% piperidine-HBr. Piperidine and $ClCH_2CH(OH)CO_2H$, heated 1 hr. on the steam bath, give 55% IX. 1-Piperidineacetaldehyde-HCl (15 g.) in 15 ml. H_2O, added to 1.5 g. NaCN in 25 ml. H_2O, gives 95% α-hydroxy-1-piperidinepropionitrile, m. 97-8°; hydrolysis with concentrated HCl (refluxing 4 hrs.) gives 92% IX. III (2 g.) in 100 ml. 95% EtOH, hydrogenated (18 hrs.) over Pd-C at room temperature/40 lb., gives 70% 2-piperidone-1-propionic acid, m. 148° [HBr salt, m. 179° (decomposition)]. The Na salt of I (5.8 g.) and 8.8 g. $MeCHBrCO_2Me$ in 25 ml. absolute EtOH, refluxed 1 hr. and the sirup saponified by heating 1 hr. with 4 g. NaOH in 10 ml. H_2O, give 93% α-2(1H)-pyridonepropionic acid (X), m. 215-17° (decomposition); catalytic reduction over Pt oxide gives 93% α-2-piperidone-1-propionic acid, m. 144°. The Na salt of I (5 g.) and 8 g. $EtOCH_2CHBrCO_2Et$ in 25 ml. absolute EtOH, refluxed 4 hrs., give 12% α,β-bis(2(1H)-pyridone)propionic acid, m. 151°. Infrared spectra are given for V, VIII and its HBr salt, 2(1H)-pyridonepropionic acid, 2-propoxypyridine, and 1-propyl-2(1H)-pyridone.